

COMPANY GENERAL PETROLEUM CORP. LEASE PICEANCE CREEK UNIT

WELL NO. 11-24

ELEVATION 7731.7' K.B. LOCATION: 500' S'ly along West line from NW corner and 500' E'ly at right angles, Section 24, T.2 S., R.96 W.

SPUDED July 15, 1957

COMPLETED August 15, 1957

TOP	BOTTOM	REC'Y	FORMATION
			Note: The electrical log is being submitted in lieu of complete ditch sample descriptions, which may be obtained at a later date upon request.
			CORE #1 1720'/1724' Rec. 3-1/2'
1720	1723-1/2	3-1/2'	Marlstone, light to dark brown, well bedded, medium hard, some local distortions, medium to rich oil shale.
1723-1/2	1724		<u>Missed.</u>
			CORE #2 1724'/1736' Rec. 11'
1724	1729-1/2	5-1/2'	Marlstone, as last above.
1729-1/2	1733-1/2	4'	Marlstone, light brown, well bedded to massive, vuggy, some interbedded tuffs.
1733-1/2	1735	1-1/2'	Marlstone, light to dark brown, well bedded, medium hard, locally distorted.
1735	1736		<u>Missed.</u>
			CORE #3 1736'/1757' Rec. 14'
1736	1757	14'	Marlstone, light brown to gray, well bedded, medium hard, tight, apparent dip 0° to 3°.
1750	1757		<u>Missed.</u>
			CORE #4 1757'/1772' Rec. 15'
1757	1772	15'	Marlstone, light gray to white, well bedded, medium hard, some permeability in fractures, some fractures filled with calcite and dead oil.
			CORE #5 1772'/1789' Rec. 15'
1772	1776	4'	Marlstone, light gray to gray, massive to thin bedded.
1776	1787	11'	Marlstone, poor to medium grade oil shale, well bedded to distorted, some salt cavities.
1787	1789		<u>Missed.</u>
			CORE #6 1789'/1805' Rec. 16'
1789	1805	16'	Marlstone, light gray to brown, poor grade oil shale; lower 3' marlstone, green, massive.
			CORE #7 1805'/1825' Rec. 13'
1805	1807	2'	Marlstone, gray to brown, massive to poorly bedded, salt cavities, bleeding medium brown oil.
1807	1818	11'	Marlstone, gray to green, medium hard, some jointing.
1818	1825		<u>Missed.</u>
			CORE #8 1825'/1835' Rec. 3-1/2'
1825	1828-1/2	3-1/2'	Limestone, gray, shaly, poorly bedded.
1828-1/2	1835		<u>Missed.</u>

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1835	1852	17'	<u>CORE #9 1835'/1852' Rec. 17'</u> Marlstone, gray to dark gray to green, fair bedding to massive, numerous salt crystals.
1852	1867	15'	<u>CORE #10 1852'/1879' Rec. 26-1/2'</u> Shale, gray to green, calcareous, soft to medium hard, numerous small salt cavities.
1867	1878-1/2	11-1/2'	Shale, gray to green, calcareous, numerous small tuff beds.
1878-1/2	1879		<u>Missed.</u>
1879	1894	15'	<u>CORE #11 1879'/1901' Rec. 15'</u> Shale, gray to green to blue-gray, well bedded, core badly broken.
1894	1901		<u>Missed.</u>
1901	1912	11'	<u>CORE #12 1901'/1912' Rec. 11'</u> Shale, gray to green, hard, some bedding, a few salt crystals, numerous thin tuff beds.
1912	1925-2/3	13-2/3'	<u>CORE #13 1912'/1932' Rec. 13-2/3'</u> Marlstone, light brown, to gray, poor oil shale, poorly bedded, some vertical fracturing.
1925-2/3	1932		<u>Missed.</u>
1932	1946-1/2	14-1/2'	<u>CORE #14 1932'/1949' Rec. 14-1/2'</u> Marlstone, as last above.
1946-1/2	1949		<u>Missed.</u>
1949	1956	7'	<u>CORE #15 1949'/1964' Rec. 13'</u> Marlstone, gray, poorly bedded.
1956	1962	6'	Marlstone, gray to light green, poorly bedded, core badly broken.
1962	1964		<u>Missed.</u>
1964	1971	7'	<u>CORE #16 1964'/1995' Rec. 26'</u> Shale, gray to light brown, limey, medium hard, vuggy, vertical fractures, some thin tuff beds.
1971	1976-1/2	5-1/2'	Marlstone, gray to light brown, fair to poor bedding, medium hard, tight.
1976-1/2	1980-1/2	4'	Marlstone, tuffaceous, gray, vertical fractures with calcite fillings, vuggy.
1980-1/2	1990	9-1/2'	Marlstone, gray to light brown to black, weak oil shale, fair bedding.
1990	1993-1/2		<u>Missed.</u>

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			<u>CORE #17 1995'/2017' Rec. 23-1/2'</u>
1993-1/2	2000	6-1/2'	Marlstone, as last above. (Including 1-1/2' picked up from previous core.)
2000	2007	7'	Marlstone, gray to green, tuffaceous, some vertical fracturing, at 2005' an 0.2' tuff bed.
2007	2017	10'	Marlstone, poor oil shale, gray to brown, fair bedding.
			<u>CORE #18 2017'/2067' Rec. 50'</u>
2017	2030	13'	Marlstone, gray to brown to black, poor oil shale, medium to poor bedding, some small tuff beds.
2030	2040	10'	Marlstone, gray to brown, to green, poor oil shale, good bedding, few vertical fractures, some small tuff beds.
2040	2053	13'	Marlstone, gray to brown, poor oil shale, fair bedding.
2053	2067	14'	Marlstone, gray to dark brown, weak to rich oil shale, well bedded to distorted, vertical fractures bleed tiny droplets of oil; at 2048-1/2' is a 1/2' tuff bed.
			<u>CORE #19 2067'/2121' Rec. 54'</u>
2067	2121	54'	Marlstone, buff to gray brown, tuffaceous, moderately well bedded, medium hard, poor permeability, a few healed vertical fractures, apparent dip 2°-3°, some thin tuff beds.
			<u>CORE #20 2121'/2176' Rec. 49'</u>
2121	2126	5'	Marlstone, gray to brown, medium to good oil shale.
2126	2132	6'	Marlstone, gray to tan, silty.
2132	2136	4'	Marlstone, dark gray to black, conchoidal fracture, est. 25 gallon per ton oil.
2136	2144	8'	Marlstone, gray to brown, poor oil shale.
2144	2160	16'	Marlstone, dark brown to black, vertical fractures in light color bands. Estimate 25 gallon per ton oil shale.
2160	2170	10'	Marlstone, gray to brown, silty. Estimate 15 gallon per ton oil shale.
2170	2176		<u>Missed.</u>
			<u>CORE #21 2176'/2207' Rec. 31'</u>
2176	2182	6'	Marlstone, brown to black, estimate 20 to 25 gallon per ton.
2182	2190	8'	Marlstone, gray to tan, silty, contains vertical fracturing 2182'/2187' with oil staining.
2190	2194	4'	Marlstone, dark gray to brown, estimated 15-20 gallon per ton.
2194	2207	13'	Marlstone, gray to tan, silty, occasional good color banding, 1/2' of fractured gray sandstone at 2202', becomes more silty downward.

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			<u>CORE #22 2207'/2237' Rec. 28'</u>
2207	2214	7'	Marlstone, gray to tan, as last above.
2214	2216	2'	Sandstone, gray, very fine high angle fracture bleeding oil at 2218'.
2216	2235	19'	Marlstone, gray to brown, silty, occasional streaks of brown marlstone and gray inter-bedded siltstones, poor oil shale.
2235	2237		<u>Missed.</u>
			<u>CORE #23 2237'/2268' Rec. 29'</u>
2237	2262	25'	Marlstone, gray to brown, silty, as last above, bleeding oil at 2243'.
2262	2266	4'	Marlstone, gray to brown.
2266	2268		<u>Missed.</u>
			<u>CORE #24 2268'/2322' Rec. 41'</u>
2268	2273	5'	Marlstone, gray to brown, with occasional dark silty streaks, estimated less than 10 gallons per ton oil.
2273	2278	5'	Marlstone, dark gray to dark brown, estimate 20-25 gallons per ton oil.
2278	2284	6'	Marlstone, gray to brown, fair color banding throughout.
2284	2299	15'	Marlstone, dark gray to dark brown, estimate 20-25 gallon per ton.
2299	2309	10'	Marlstone, gray to brown, somewhat silty, estimated 5 gallon per ton.
2309	2322		<u>Missed.</u>
			<u>CORE #25 2322'/2377' Rec. 44'</u>
2322	2366	44'	Marlstone, brown to black, two 1/8" lenses of salines at 2352', four at 2358'/2359' and several more at 2367'/2369'. 1" analcitic tuff at 2368'. Estimate 25-30 gallons per ton oil.
2366	2377		<u>Missed.</u>
			<u>CORE #26 2377'/2407' Rec. 30'</u>
2377	2406	29'	Marlstone, dark gray to brown, silty in part, estimate 5-10 gallons per ton oil.
2406	2407	1'	Marlstone, black, estimated 20 gallon per ton oil.
			<u>CORE #27 2407'/2462' Rec. 55'</u>
2407	2417	10'	Marlstone, gray to brown, banded. Estimate 5-10 gallon per ton oil.
2417	2426	9'	Marlstone, gray to brown to black, ^{Gar} Gor-pike scales at 2419', trace gray siltstone at 2422'. Estimate 5-10 gallons per ton oil.
2426	2438	12'	Marlstone, brown to black, silty, contains a few light streaks, estimate 10-15 gallons per ton oil.

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			<u>CORE #27 2407'/2462' Rec. 55' (Continued)</u>
2438	2448	10'	Marlstone, black with white saline partings, probably non-calcareous, estimate 25 to 30 gallons per ton oil.
2448	2452	4'	Marlstone, gray, silty, estimated 5 gallons per ton oil.
2452	2460	8'	Marlstone, black to brown, streaks of white salines, possible stacking type shale, estimated 20-25 gallons per ton oil.
2460	2462	2'	Marlstone, dark gray to brown, silty, estimate 10 gallons per ton oil.
			<u>CORE #28 2462'/2519' Rec. 51'</u>
2462	2478	16'	Marlstone, brown, some plant fossils, vertical fractures filled with gilsonite.
2478	2498	20'	Marlstone, gray to light brown.
2498	2511	13'	Siltstone, light gray to tan, calcareous, with streaks of light brown. Silty marlstone and occasional streaks of light colored marlstone giving good color banding.
2511	2513	2'	Marlstone, gray to brown.
2513	2519		<u>Missed.</u>
			<u>CORE #29 2519'/2551' Rec. 32'</u>
2519	2537	18'	Marlstone, gray to brown, low organic content, few plant fossils.
2537	2542	5'	Shale, gray to dark brown, rich in organic material, small amount of carbonate, estimate 15-20 gallons per ton oil.
2542	2551	9'	Marlstone, gray to tan, streaks of dark gray to brown marlstone, estimate less than 15 gallons per ton oil.
			<u>CORE #30 2551'/2613' Rec. 62'</u>
2551	2559	8'	Marlstone, as last above, becoming more organic in lower portion.
2559	2562	3'	Marlstone, gray, silty.
2562	2577	15'	Marlstone, gray to dark brown, appears low in carbonate content, occasional fractures filled with asphaltite material, estimate 15-20 gallons per ton oil.
2577	2613	36'	Marlstone, light gray to tan to brown, good color banding, lean in organic material, but increasing downward, vertical fractures in light brown color bands contain asphaltite, light gray, silty sandstone streaks at 2602' highly irregular, thickness 1" to 3", bleeds light brown oil, several fractures bleed asphaltite.
			<u>CORE #31 2613'/2672' Rec. 59'</u>
2613	2617	4'	Marlstone, brown, estimated 5 to 10 gallons per ton oil.
2617	2637	20'	Marlstone, gray, silty, 1' of brown marlstone at 2626' and again at 2634'.
2637	2643	6'	Marlstone, dark brown to black, lenses of white carbonate mineral 1/8" to 3" thick and parallel to bedding in lower 1'.

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			<u>CORE #31 2613'/2672' Rec. 59' (Continued)</u>
2643	2658	15'	Marlstone, gray to light brown, silty, estimated 5 gallons per ton oil.
2658	2663	5'	Marlstone, brown to black, estimate 20 gallons per ton oil.
2663	2668	5'	Marlstone, gray, silty, estimated 5 gallons per ton oil.
2668	2672	4'	Marlstone, dark brown to black, estimate 20 gallons per ton oil.
			<u>CORE #32 2672'/2727' Rec. 55'</u>
2672	2677	5'	Shale, dark gray, silty, asphalt filled fracture at 2677'.
2677	2681	4'	Marlstone, black to brown, wavy bedding. Estimate 10 to 15 gallons per ton oil.
2681	2686	5'	Shale, dark gray, slacking, silty, a few gray siltstone streaks.
2686	2688	2'	Marlstone, brown to black, estimate 20-25 gallons per ton oil.
2688	2690	2'	Shale, dark gray, slacking.
2690	2701	11'	Marlstone, gray to brown to black, banded, silty, with 1' of gray to black slacking shale at 2699'.
2701	2711	10'	Marlstone, brown to dark brown to black, wavy bedding, estimate 15-20 gallons per ton oil.
2711	2718	7'	Marlstone, black, a few thin, tan, fractured limestone beds, 1" to 2" thick.
2718	2720	2'	Limestone, tan, interbedded with black marlstone, oil bleeding from 2" bed at 2718'.
2720	2723	3'	Marlstone, black, interbedded with limestone, tan to brown, vertically fractured with asphaltic oil in most fractures.
2723	2727	4'	Shale, black, slacking, vertically fractured white carbonate partings, estimated 25-30 gallons per ton oil.

TOTAL DEPTH: 3407'